

# Global End Effectors Market Growth 2026-2032

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## Abstracts

The global End Effectors market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

In 2024, global End Effectors capacity 4,500 k Units, sales reached approximately 4,380 k Units, with an average market price of around 156 USD/Unit, industrial gross margin 35%.

End effectors sit at the true point-of-value in a robotic cell: they are the hands and tools that translate robot motion into process outcomes. Typical end effectors include mechanical grippers, vacuum cups, soft grippers, magnetic and electric grippers on the one hand, and process tools such as weld torches, sanding units, spray guns and dispensers on the other, complemented by tool changers, force/torque sensors and vision modules. The competitive landscape is led by a group of specialized end-effector players—among them SCHUNK, Zimmer Group, Piab, Schmalz, Destaco, ATI (now under Novanta), Robotiq, OnRobot, SMC and Festo—that position themselves around specific robot brands, interface standards and vertical applications, rather than competing on robots themselves.

Along the value chain, end effectors form the bridge between robot hardware/control and the actual process. Upstream, they rely on precision-machined structures, seals, sensors and pneumatic or electric actuators; midstream activities are the design, manufacturing and integration of grippers, vacuum systems and tool changers; downstream, end effectors unlock concrete use cases such as automotive body welding and painting, precision electronics and semiconductor assembly, e-commerce and warehouse picking, food and beverage packaging, pharma and lab automation, and surgical robots. As factories push for flexible automation and higher takt times, the density and sophistication of end effectors per line are rising in automotive and electronics, while new demand is emerging in food, healthcare and agriculture where

gentle, hygienic and easily washable tooling is critical.

Technologically, the End Effectors / end-effector market is shifting from rigid, application-specific tools toward modular, reconfigurable and intelligent systems. Grippers remain the core product category, but soft and adaptive grippers, multi-zone vacuum heads and compound tools with integrated force/torque or tactile sensing are growing fast, particularly in collaborative robot and high-mix, low-volume environments. Tool changers are another high-growth pocket: by allowing one robot to swap between gripping, welding, deburring and inspection tools within seconds, they boost asset utilization and flexibility, and they also pull through more content in sensors, cabling and safety. This dynamic is turning end effectors from simple components into platforms—with standardized interfaces, configuration software and pre-engineered process kits—that can be rolled out across global manufacturing networks.

Strategic moves over the last few years illustrate how central end effectors have become to automation portfolios. One example is Novanta's acquisition of ATI Industrial Automation, which brought together high-performance tool changers, material-removal tools and force/torque sensors with servo and motion-control platforms for demanding industrial and medical-robot applications. Another is Piab's acquisition of vacuum-gripping specialist Joulin, adding a strong franchise in heavy wood and panel handling, plus a loyal installed base, to a broader automation group that has since been integrating selected Joulin grippers into its own product family while keeping the Joulin brand alive in core segments. Together with a steady stream of new launches from players such as Schunk, Zimmer, Robotiq and OnRobot for e-commerce packaging, semiconductor handling and cobots, these moves show End Effectors evolving from standalone parts toward vertically tailored solution bundles.

Looking forward, the End Effectors / end-effector market is expected to keep expanding along two dimensions: deeper verticalization and higher intelligence. On the demand side, automotive, battery and power-semiconductor manufacturing, consumer electronics, and e-commerce intralogistics will remain anchor segments, while food, pharma and medical robotics add incremental growth driven by hygiene, safety and soft-handling constraints. On the supply side, the spread of collaborative robots and the integration of vision and AI are turning end effectors into smart devices with sensing, embedded firmware and cloud-configurable behaviors; modular quick-change systems and standardized interfaces become key tools for locking in robot ecosystems and lifetime customer value. In such an environment, vendors that can offer broad end-effector portfolios, vertical application kits and global support are positioned to capture an outsized share of the next wave of automation spending.

LP Information, Inc. (LPI) ' newest research report, the “End Effectors Industry Forecast” looks at past sales and reviews total world End Effectors sales in 2025, providing a comprehensive analysis by region and market sector of projected End Effectors sales for 2026 through 2032. With End Effectors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world End Effectors industry.

This Insight Report provides a comprehensive analysis of the global End Effectors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on End Effectors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global End Effectors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for End Effectors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global End Effectors.

This report presents a comprehensive overview, market shares, and growth opportunities of End Effectors market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Pneumatic Type

Electric Type

### **Segmentation by Material:**

Rigid Type

Soft Type

### **Segmentation by Application:**

Automobile

Electronics and Semiconductor

Food and Beverage

Logistics

Pharmaceutical

Medical

Cosmetics

Others

### **This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Schunk

Festo

SMC

Robotiq

Zimmer

Destaco

ATI Industrial Automation

EMI Corp

IAI Automation

Effecto

Schmalz

Piab

IPR

FIPA

Bastian Solutions

Soft Robot Tech (SRT)

Rochu

Shenzhen Elephant Robotics

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global End Effectors market?

What factors are driving End Effectors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do End Effectors market opportunities vary by end market size?

How does End Effectors break out by Type, by Application?

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